

Attorney Docket No.: J3678(C)
Serial No.: 10/520,394
Filed: January 4, 2005
Confirmation No.: 5147

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

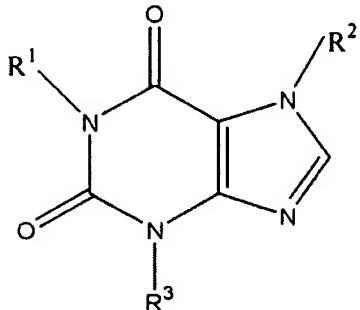
Listing of Claims:

Claim 1 (Previously Presented) A method of treating hair comprising the steps of

(a) applying to the hair a leave on hair treatment composition comprising:

i) an alpha-hydroxyl acid component that is citric acid, tartaric acid, their salts or mixtures thereof; and

ii) a xanthine component comprising a substituted xanthine of the formula:



wherein R^1 and R^2 are independently selected from H or substituted or unsubstituted C_1 to C_5 alkyl, and R^3 is substituted or unsubstituted C_1 to C_5 alkyl, and

wherein the total amount of alpha-hydroxy acid component i) and xanthine component ii) present in the leave on hair treatment composition is from 2 to 5 wt.% and wherein the ratio of i) to ii) is from 1:3 to 3:1 and iii) from 0.001 to 10% by weight of a styling polymer,

wherein the leave on hair treatment composition is applied to increase the high humidity style retention of the hair, and

(b) styling the hair on which the leave-on hair treatment composition has been applied.

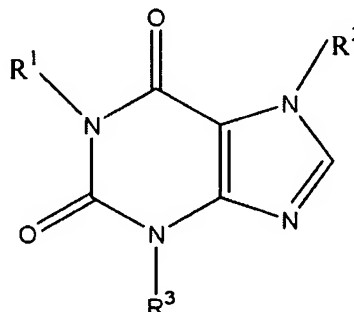
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Claims 2-3 (Cancelled)

Claim 4 (Previously Presented) A method of treating hair comprising the steps of

(a) applying to the hair a leave on hair treatment composition comprising:

- i) an alpha-hydroxy acid component that is citric acid, tartaric acid, their salts or mixtures thereof; and
- ii) a xanthine component comprising a substituted xanthine of the formula



wherein R¹ and R² are independently selected from H or substituted or unsubstituted C₁ to C₅ alkyl, and R³ is substituted or unsubstituted C₁ to C₅ alkyl, wherein the total amount of the alpha-hydroxy acid component i) and xanthine component ii) present in the leave on hair treatment composition is from 2 to 5 wt.% and wherein the ratio of i) to ii) is from 1:0.01 to 0.01:1,

iii) from 0.001 to 10% by weight of a styling polymer,

wherein the leave on hair treatment composition is applied to increase the high humidity style retention of the hair, and

(b) styling the hair on which the leave-on hair treatment composition has been applied.

Claim 5 (Previously Presented) A method according to claim 1 in which the substituted xanthine ii) is caffeine.

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Claim 6 (Previously Presented) A method according to claim 1 in which the α -hydroxy acid and/or its salt if optically active is in the L-form.

Claims 7-8 (Cancelled)

Claim 9 (Previously Presented) A method according to claim 1 in which the hair treatment composition further comprises a surfactant.

Claim 10 (Previously Presented) A method according to claim 1, in which the hair treatment composition further comprises a cationic, or silicone based conditioning agent.

Claim 11 (Cancelled)

Claim 12 (Previously presented) A method according to claim 1 in which the hair treatment composition comprises an aqueous base.

Claims 13-15 (Cancelled)

Claim 16 (Previously Presented) A method according to claim 1 wherein the substituted xanthine is selected from the group consisting of caffeine, dyphylline, cafaminol, theophylline, aminophylline, and theobromine.

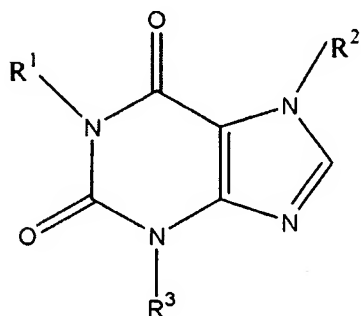
Claim 17 (Previously Presented) A method according to claim 4 wherein the ratio of i) to ii) is from 3:1 to 1:3.

Claim 18 (Cancelled)

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Claim 19 (Previously Presented) A method of treating hair comprising the step of applying to the hair a leave on hair treatment composition comprising:

- i) an α -hydroxy acid component comprising L-tartaric acid and/or its salt;
and
ii) a xanthine component comprising a substituted xanthine of the formula:



wherein R¹ and R² are independently selected from H or substituted or unsubstituted C₁ to C₅ alkyl, and R³ is substituted or unsubstituted C₁ to C₅ alkyl, and wherein the ratio of the α-hydroxy acid component i) to the xanthine component ii) is from 3:1 to 1:3, and wherein the total amount of α-hydroxy acid component i) and xanthine component ii) present in the leave on hair treatment composition is from 2 to 5 wt.%.

Claim 20 (Previously Presented) A method according to claim 4 wherein R¹, R² and R³ are independently selected from C₁ to C₅ alkyl.

Claim 21 (Previously Presented) A method according to claim 1 wherein the hair treatment composition is also applied to lengthen the hair and/or to decrease the volume of the hair.